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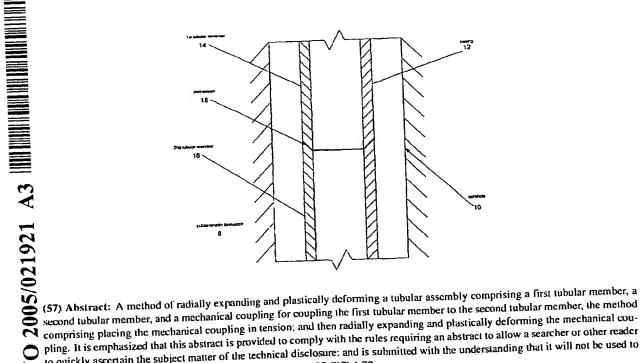
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ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
A,P	US 2004/0231839 A1 (Ellington et al.) 25 November 2004 (25.11.2004), Figures.	1-77
A,P	US 2004/0060706 A1 (Stephenson) 01 April 2004 (01.04.2004), Figures.	1-77
Α	US 2003/0075338 A1 (Sively, IV) 24 April 2003 (24.04.2003), Figures.	1-77
Α	US 6,419,025 B1 (Lohbeck et al.) 16 July 2002 (16.07.2002), Figuers.	1-77
A,P	US 2004/0221996 A1 (Burge) 11 November 2004 (11.11.2004), Figures.	1-77
Α	US 2003/0042022 A1 (Lauritzen et al.) 06 March 2003 (06.03.2003), Figures.	1-77
Α	US 6,527,049 B2 (Metcalfe et al.) 04 March 2003 (04.03.2003), Figures.	1-77
A,P	US 6,722,443 B1 (Metcalfe) 20 April 2004 (20.04.2004), Figures.	1-77
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